

PATENT
HES 2003-IP-009967U1P1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Colin Temple and)
Arthur Youngson)
) Art Unit: Unknown
)
Serial No.: Unknown)
)
Filed: Concurrently Herewith) Examiner: Unknown
)
For: DRILLING FLUIDS WITH IMPROVED)
SHALE INHIBITION AND METHODS OF)
DRILLING IN SUBTERRANEAN)
FORMATIONS)

INFORMATION DISCLOSURE STATEMENT

ASSISTANT COMMISSIONER FOR PATENTS
Washington, D.C. 20231

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

U. S. PATENTS

U.S. Patent No. 3,738,437 issued June 12, 1973 to Ronald F. Scheuerman.

U.S. Patent No. 3,843,524 issued October 22, 1974 to Alphonse C. Perricone et al.

U.S. Patent No. 4,033,893 issued July 5, 1977 to Thomas C. Mondshine.

U.S. Patent No. 4,142,595 issued March 6, 1979 to Duane B. Anderson et al.

U.S. Patent No. 4,440,649 issued April 3, 1984 to Royal E. Loftin et al.

U.S. Patent No. 4,460,627 issued July 17, 1984 to Jimmie D. Weaver et al.

U.S. Patent No. 4,532,052 issued July 30, 1985 to Jimmie D. Weaver et al.

U.S. Patent No. 4,536,297 issued August 20, 1985 to Royal E. Loftin et al.

U.S. Patent No. 4,741,843 issued May 3, 1988 to Christopher M. Garvey et al.

U.S. Patent No. 4,757,862 issued July 19, 1988 to Michael I. Naiman et al.

U.S. Patent No. 4,941,981 issued July 17, 1990 to Alphonse C. Perricone et al.

U.S. Patent No. 4,988,450 issued January 29, 1991 to James A. Wingrave et al.

U.S. Patent No. 5,198,415 issued March 30, 1993 to Ronald P. Steiger.

U.S. Patent No. 5,208,216 issued May 4, 1993 to C. Darwin Williamson et al.

U.S. Patent No. 5,635,458 issued June 3, 1997 to Li-Jein J. Lee et al.

U.S. Patent No. 6,054,416 issued April 25, 2000 to Ronald G. Bland.

U.S. Patent No. 6,204,224 B1 issued March 20, 2001 to Lirio Quintero et al.

U.S. Patent No. 6,248,698 B1 issued June 19, 2001 to Gregory A. Mullen et al.

U.S. Patent No. 6,291,405 B1 issued September 18, 2001 to LiJien Lee et al.

U.S. Patent No. 6,422,325 B1 issued July 23, 2002 to Darrell L. Krieger.

U.S. Patent No. 6,435,276 B1 issued August 20, 2002 to James D. Kercheville.

U.S. Patent No. 3,359,225 issued December 19, 1967 to Charles F. Weisend.

OTHER MATERIAL

U.S. Patent Application Publication No. US 2002/0160919A1 published October 31, 2002 to Calvin J. Stowe, II. et al.

SPE 14248 entitled "Shale Stabilization Principles by L.E. Nisbett et al. dated 1985.

Baroid brochure entitled "BARACAT® Shale Stabilizer" dated 2002.

Baroid brochure entitled "BARASIL™-S Shale Stabilizer" dated 2002.

Baroid brochure entitled “BARO-TROL® PLUS Shale Stabilizer” dated 1999.

Baroid brochure entitled “CLAYSEAL® Shale Stabilizer” dated 2002.

Baroid brochure entitled “EZ-MUD® Shale Stabilizer” dated 2002.

Baroid brochure entitled “GEM™ 2000 Shale Stabilizer dated 2002.

Baroid brochure entitled “HYDRO-GUARD™ Inhibitive Water-Based Fluid” dated 2002.

Paper entitled “Structural Insights into a Novel Molecular-Scale Composite of Soluble Poly(vinyl Pyrrolidone) Supporting Uniformly Dispersed Nanoscale Poly(vinyl pyrrolidone) Particles” by David Hood, et al., dated 2002.

International Specialty Products brochure entitled “New ViviPrint™ Technology Commercially Available” dated 2002.

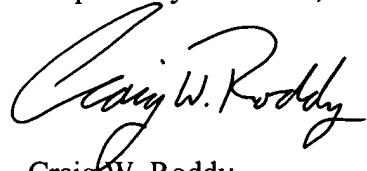
Zytek brochure entitled “Nanotechnology” by Christine Peterson, undated, but admitted to be prior art.

Kodak brochure entitled “Nanoparticles and You – Chances are You’ve Got Them” dated 2001.

Paper entitled “Connections to Other Fields; Education Issues”, by Gary Poehlein, dated 1998.

Copies of the aforementioned references and Form PTO-1449 are submitted herewith.

Respectfully submitted,



Craig W. Roddy
Registration No. 36,256
Halliburton Energy Services
P. O. Box 1431
Duncan, OK 73536-0440
580-251-3012

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 2003-IP-009967U1P1	SERIAL NO. Unknown
APPLICANT Colin Temple et al.			
		FILING DATE Concurrently herewith	GROUP Unknown

U. S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	3,738,437	06/12/73	Scheuerman	175	70	
	AB	3,843,524	10/22/74	Perricone et al.	252	1	
	AC	4,033,893	07/05/77	Mondshine	252	805 A	
	AD	4,142,595	03/06/79	Anderson et al.	175	72	
	AE	4,440,649	04/03/84	Loftin et al.	252	8.5 C	
	AF	4,460,627	07/17/84	Weaver et al.	427	212	
	AG	4,532,052	07/30/85	Weaver et al.	252	8.55 R	
	AH	4,536,297	08/20/85	Loftin et al.	252	8.5 C	
	AI	4,741,843	05/03/88	Garvey et al.	252	8.514	
	AJ	4,757,862	07/19/88	Maiman et al.	166	295	
	AK	4,941,981	07/17/90	Perricone et al.	252	8.51	

FOREIGN PATENT DOCUMENTS

		Document No.		Date		Country		Translation
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	SPE 14248 entitled "Shale Stabilization Principles" by L.E. Nesbitt et al. dated 1985.
AS	Baroid brochure entitled "BARACAT® Shale Stabilizer" dated 2002.
AT	Baroid brochure entitled "BARASIL™-S Shale Stabilizer" dated 2002.

EXAMINER _____ DATE CONSIDERED _____

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 2003-IP-009967U1P1	SERIAL NO. Unknown
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Colin Temple et al.	
(Use several sheets if necessary)		FILING DATE Concurrently herewith	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	4,988,450	01/29/91	Wingrave et al.	252	8.514	
	AB	5,198,415	03/30/93	Steiger	507	103	
	AC	5,208,216	05/04/93	Williamson et al.	507	120	
	AD	5,635,458	06/03/97	Lee et al.	507	240	
	AE	6,054,416	04/25/00	Bland	507	136	
	AF	6,204,224 B1	03/20/01	Quintero et al.	507	123	
	AG	6,248,698 B1	06/19/01	Mullen et al.	507	140	
	AH	6,291,405 B1	09/18/01	Lee et al.	507	136	
	AI	6,422,325 B1	07/23/02	Krieger	175	50	
	AJ	6,435,276 B1	08/20/02	Kercheville et al.	166	255.1	
	AK	US 2002/0160919 A1	10/31/02	Stowe, II. et al.	507	100	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Baroid brochure entitled "BARO-TROL® PLUS Shale Stabilizer" dated 1999.
AS	Baroid brochure entitled "CLAYSEAL® Shale Stabilizer" dated 2002.
AT	Baroid brochure entitled "EZ-MUD® Shale Stabilizer" dated 2002.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 2003-IP-009967U1P1	SERIAL NO. Unknown
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Colin Temple et al.	
(Use several sheets if necessary)		FILING DATE Concurrently herewith	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	3,359,225	12/19/67	Weisend	260	29.6	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation
							Yes
	AL						
	AM						
	AN						
	AO						
	AP						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Baroid brochure entitled "GEM™ 2000 Shale Stabilizer" dated 2002.
AS	Baroid brochure entitled "HYDRO-GUARD™ Inhibitive Water-Based Fluid
	Dated 2002.
AT	Paper entitled "Structural Insights into a Novel Molecular-Scale Composite of Soluble Poly(vinyl Pyrrolidone) Supporting Uniformly Dispersed Nanoscale Poly(vinyl pyrrolidone) Particles" by David Hood, et al., dated 2002.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 2003-IP-009967U1P1	SERIAL NO. Unknown
		APPLICANT Colin Temple et al.	
		FILING DATE Concurrently herewith	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	International Specialty Products brochure entitled "New ViviPrint™
		Technology Commercially Available" dated 2002.
	AS	Zytek brochure entitled "Nanotechnology" by Christine Peterson,
		undated, but admitted to be prior art.
	AT	Kodak brochure entitled "Nanoparticles and You - Chances are You've
		Got Them" dated 2001.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 2003-IP-009967U1P1	SERIAL NO. Unknown
		APPLICANT Colin Temple et al.	
		FILING DATE Concurrently herewith	GROUP Unknown

U. S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
AA							
AB							
AC							
AD							
AE							
AF							
AG							
AH							
AI							
AJ							
AK							

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation
							<u>Yes</u> <u>No</u>
	AL						
	AM						
	AN						
	AO						
	AP						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Paper entitled "Connections to Other Fields; Education Issues", by
	Gary Poehlein, dated 1998.
AS	
AT	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.